TABLE I. DEVICE PARAMETERS 1/

JPL Part No. 12080-	Manufacturer	Generic Part No.	Device Type	Package Style	Electrical Performance Characteristics	Terminal Connections	Electrical Test Requirement 2/	Input Impedance 4-8 (Ω)	Weight Max. (gms)	Duty Cycle (%)
L15537F	Datatronics	N/A	L	Fig. 1 herein	Table II & III	Fig. 2 herein	Table IV	2,000 min	5	100

NOTES:

1/ This drawing, in conjunction with JPL drawing CS515583 and MIL-T-21038, impose all requirements for procurement of these devices.

2/ Screening shall be in accordance with JPL drawing CS515583, utilizing test networks specified in MIL-T-21038/27C.

3/ This document takes precedence over documents referenced herein.

RELEASED THRU SECTION 356 DATA MANAGEMENT: DATE:

REVISION: C APPROVED BY: DATE:

APPROVED SOURCE(S)

THE ITEM LISTED IN THE APPROVED SOURCE BLOCK AND IDENTIFIED BY VENDOR NAME, ADDRESS, AND PART NUMBER WILL BE EVALUATED AND TESTED BY THE JPL ELECTRONIC PARTS RELIABILITY SECTION OR ITS DELEGATED ALTERNATE BEFORE BEING APPROVED FOR USE. NON-JPL USERS SHALL CHECK WITH THE ELECTRONIC PARTS RELIABILITY SECTION ON THE STATUS OF THE PART'S APPROVAL BEFORE USING.

VENDOR PART NO	VENDOR	JPL PART NO

JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY

CAGE NO 23835

Procurement specification:
CS515583
Screening specification:
CS515583

TITLE:
TRANSFORMER,
LOW POWER, PULSE, 1:1.79 TURNS RATIO, CENTER TAP

DETAIL SPECIFICATION

ST 12080

Custodian: Electronic Parts Reliability Section 514

SHEET 1 OF 4

FILE (Sec. 514): F:\USERS\514\SPECS\ACT-DETL\ST12080.C

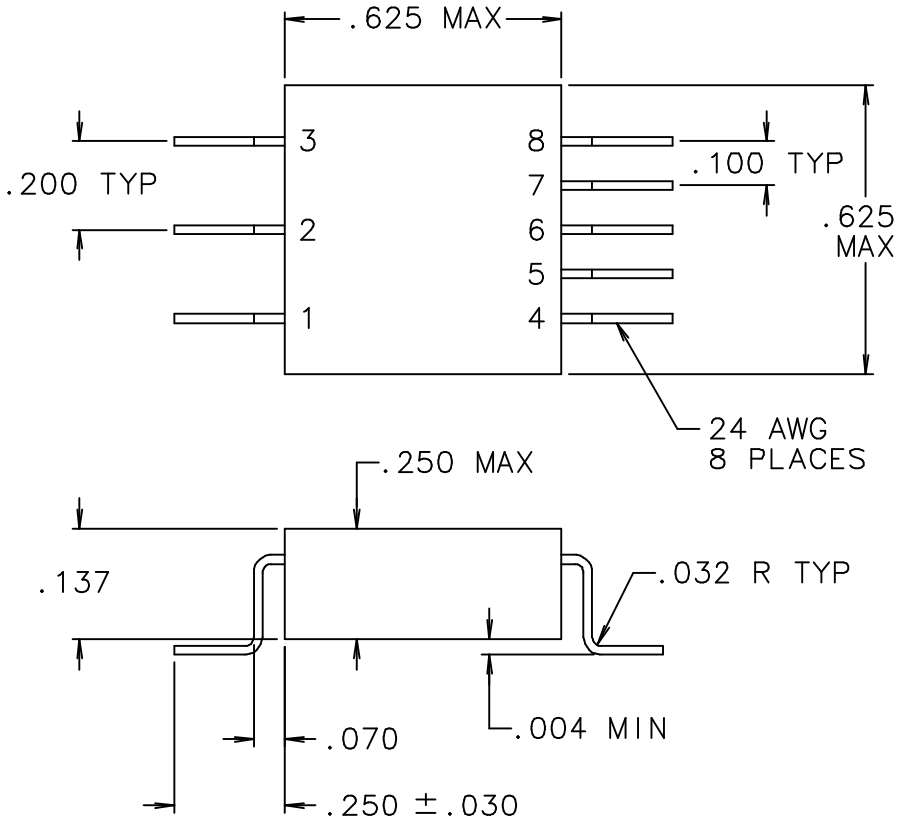

FIGURE 1. Dimensions and Package Style.

NOTES:

1. Dimensions are in inches unless otherwise specified. Tolerances: .XXX = ±Ø.ØØ8, .XX = ±Ø.Ø1Ø
2. Parts shall meet the electrical requirements of Tables I & II herein and shall meet all the requirements of MIL-T-21Ø38.
3. Lead material shall be 24 AWG soft phosphor bronze or solder coated copper and all lead forming shall be completed prior to the initiation of screening.
4. All solder used internal to the device shall be classified as high temperature solder and have a solidus melting point greater than 250°C.

TABLE II. Electrical Performance Characteristics.

JPL Part No. 12080 -	Turns Ratio (±3%)	Impedance Min.(KΩ)	Leakage Inductance Max.(μH)	Interwinding Capacitance Max. (pF)	Winding Resistance Max (Ω)		Insulation Resistance Min. (MΩ)	Dielectric Withstanding Voltage (Vrms)	Test Temperature Range(°C)
	1,3:4,8	4-8	1,3:4,8	1.3:4,8	1-3	4-8	1-4	1-4	
L15537F	1CT:1.79CT	2.0	3.0	60	0.7	2.5	10,000	100	-55 to +125

TABLE III. Output Waveform Characteristics.

JPL Part No. 12080 -	Droop Max. (%) 1/	Overshoot Max. (Vp) 1/	Rise/Fall Time Max. (nS) 1/	Common Mode Rejection Min.(dB) 1/
L15537F	20	±1.0	250	45

In accordance with requirements of MIL-STD-1553.

1/ E_{IN} applied @ Wdg. 1-3, 27 V_{P-P}, 250 KHz, TR_{IN} = 90±5 nS.

2/ Waveform parameters shall be measured in accordance with and utilizing the network specified in MIL-T-21038/27C.

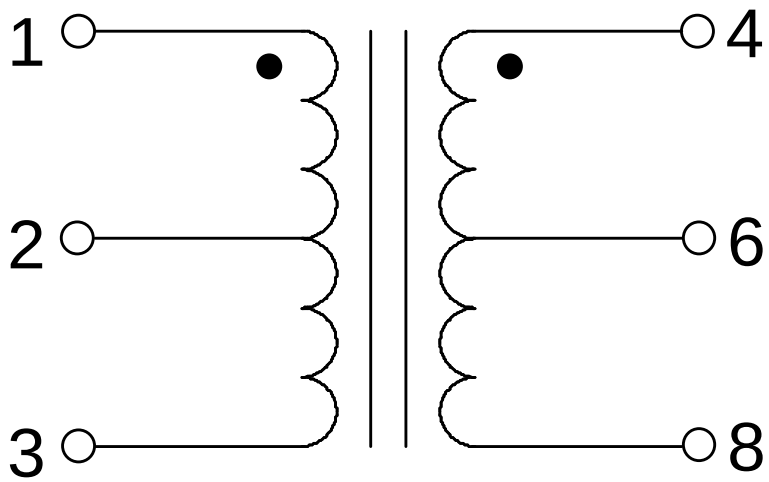

Figure 1. Schematic (Dot denotes like polarities)

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ST 12080	REV C	TITLE: TRANSFORMER LOW POWER, PULSE, 1:1.79 TURNS RATIO, CENTER TAP	ST	REV
SHEET 4 OF 4			SHEET OF	

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